

Amendments To The Claims:

1 to 41 and 55 (canceled)

42 to 54 and 56 to 66 (withdrawn)

67. (New) A reinforced polymer blend comprising a polymer nanocomposite material blended with 1 to 90% of a block copolymer where one of the blocks in the block copolymer is identical chemically and has the same crystalline form as the polymer in the polymer nanocomposite material and subsequently extruded into tubing having an inside diameter of about 0.001 inches to about 0.500 inches with increased modulus and toughness and providing a balance therebetween.

68. (New) The reinforced polymer blend as defined in Claim 67 wherein said nanocomposite polymer material comprises a Nylon 12 nanocomposite polymer material.

69. (New) The reinforced polymer blend as defined in Claim 67 wherein said block copolymer comprises a Nylon 12 block copolymer.

70. (New) The reinforced polymer blend as defined in Claim 69 wherein said Nylon 12 block copolymer comprises a Nylon 12 polyether block copolymer.

71. (New) The reinforced polymer blend as defined in Claim 67 wherein said polymer nanocomposite material and said block copolymer are initially provided in pellet form and are blended together by dry blending of the respective pellets thereof prior to extruding thereof.

72. (New) The reinforced polymer blend as defined in Claim 67 wherein said polymer nanocomposite material and said block copolymer are initially passed through a precompounding extruder to facilitate initial blending therebetween prior to extruding thereof.

73. (New) The reinforced polymer blend as defined in claim 67 wherein said block copolymer comprises a plastic material formed from the reaction of two monomers where the two monomers are not randomly distributed along the polymer backbone but are unevenly distributed to form blocks of at least four monomer units in the copolymer's backbone.

74. (New) A reinforced polymer blend comprising a first nanocomposite polymer material blended with 1 to 90% of a second nanocomposite polymer material where the said first nanocomposite polymer material and said second nanocomposite polymer material are similar chemically but are of different crystalline forms and subsequently being extruded into a tubing having an inside diameter of about 0.001 inches to about 0.500 inches with a unique balance between modulus and ductility while simultaneously exhibiting an unexpectedly high modulus and increased dimensional stability when compared with extrusions of the pure nanocomposite polymer material.

75. (New) A reinforced polymer blend as defined in Claim 74 wherein said first nanocomposite polymer material comprises a Nylon 6 nanocomposite polymer material.

76. (New) A reinforced polymer blend as defined in Claim 74 wherein said second nanocomposite polymer material comprises a Nylon 12 nanocomposite polymer material.

77. (New) The reinforced polymer blend as defined in Claim 74 wherein said first nanocomposite polymer material and said second nanocomposite polymer material are initially provided in pellet form and are blended together by dry blending of the respective pellets thereof prior to extruding thereof.

78. (New) The reinforced polymer blend as defined in Claim 74 wherein said first nanocomposite polymer material and said second nanocomposite polymer material are initially passed through a precompounding extruder to facilitate initial blending therebetween prior to extruding thereof.
79. (New) A reinforced polymer blend comprising a nanocomposite polymer material blended with 1 to 90% of a block nanocomposite copolymer material where one of the blocks in the block copolymer is similar chemically but has a different crystalline form and subsequently extruded into a tubing having an inside diameter of about 0.001 inches to about 0.500 inches and having a unique balance between modulus and ductility while exhibiting an unexpectedly high modulus and exhibiting improved dimensional stability when compared with extrusions of the pure nanocomposite polymer.
80. (New) The reinforced polymer blend as defined in Claim 79 wherein said nanocomposite polymer material comprises a Nylon 6 nanocomposite polymer.
81. (New) The reinforced polymer blend as defined in Claim 79 wherein said block nanocomposite copolymer material comprises a Nylon 12 nanocomposite copolymer.
82. (New) The reinforced polymer blend as defined in Claim 79 wherein said block nanocomposite copolymer material comprises a Nylon 12 polyether nanocomposite copolymer.
83. (New) The reinforced polymer blend as defined in Claim 79 wherein said polymer nanocomposite material and said block nanocomposite copolymer material are initially provided in pellet form and are blended together by dry blending of the respective pellets thereof prior to extruding thereof.
84. (New) The reinforced polymer blend as defined in Claim 79 wherein said polymer nanocomposite material and said block nanocomposite copolymer material are initially passed through a precompounding extruder to facilitate initial blending therebetween prior to extruding thereof.

85. (New) The reinforced polymer blend as defined in Claim 79 wherein said block copolymer comprises a plastic material formed from the reaction of two monomers where the two monomers are not randomly distributed along the polymer backbone but are unevenly distributed to form blocks of at least four monomer units in the copolymer's backbone.